

SAMPLE OF REO REPORTS OF UNSCHEDULED MAINTENANCE

Equipment	Date	Problem	Remedy	Ship Name
Walkie Talkie	11-Feb-88	Garbled speech on several units	Re-tuned transmitters	ONI Charger
Depth Sounder	13-Feb-88	Weak chart	Replaced with fresh chart, cleaned carbon dust from PCB, realigned reciever	ONI Charger
SSB transceiver	12-Feb-88	Antenna SWR lead-in fell apart	Repaired	ONI Charger
Walkie Talkie		Low battery voltage on several battery packs	Recharged and returned to service	ONI Charger
Walkie Talkie	03-Mar-88	Dummy plug for PL accessory fell off receptical-Failed completely	Sewed the two together with polyester thread and needle	ONI Charger
Walkie Talkie	15-Feb-88	No charging in charge strand	Cleaned and applied solder blobs to reach charger points	ONI Charger
Main reciever	06-Jan-88	Burned out pot on RF meter circut	Replaced pot and re-adjusted	ONI Charger
Lorain selective call	11-Dec-87	Sometimes failed to respond to calls	Re-adjusted master timer	ONI Charger
RDF	22-Jan-88	Renewal of deviation chart and CAM required by FCC	Swung ship and made new deviation chart	ONI Charger
Auto Alarm	14-Feb-88	Frequent burn-out of power lamp	Installed 150 OHM, 2W resistor in series with lamp	ONI Charger
Radar	17-Mar-88	Bad pots on joystick.	Changed joystick assembly. Ordered new pots.	ONI Charger
VHF radio	20-Mar-88	Confusion in operation of VHF	Made and installed placards to clarify VHF operation	ONI Charger
CAI SSB Radio	23-Mar-88	Wire from SSB antenna coupler to antenna fell off	Rebuilt end fittings using only copper and stainless	ONI Charger
Radar	02-Apr-88	Radar shuts down after a few seconds of operation.	Over-current protection set too low. Current increase due to aging magnetron. Raised threshold 2 turns on potentiometer.	ONI Charger
Radar	03-Apr-88	Poor sensitivity	Re-tuned coarse L.O., reset XTAL currents	ONI Charger
Satcom	13-Mar-88	All incoming/outgoing telex channels assignments rejected with error msg. "Req rejected--printer not on line". Occasional character hits.	Pulled PC cards, cleaned card edges and pins on all removable i.c.'s.	Adonis
Raytheon Indicator	13-Mar-88	Sector missing, shortened trace at bottom of display. Sweep truncated to flat line approx. 2" from CRT edge.	Pulled A10 card, burnished card edge connectors. Reinstalled and adjusted R54 for proper sweep presentation.	Adonis
Frequency counter	11-Apr-88	Inoperative. No +5 voc to timebase oscillator from regulator, no output from clock oscillator.	Replaced MM5369 (U20) clock oscillator I.C.	Adonis
Radar	25-Mar-88	Reflections of grease marker pen on plotting head extremely weak. Silver surface wiping away from cleaning.	Replaced new reflecting glass.	Adonis
Telephone	02-Feb-88	WD-40 sprayed on selector relays on cards.	Oiled relays and cleaned with bond paper.	Adonis

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Bridge VHF	29-Mar-88	Always reverts back to channel 16 when microphone put back on mic bracket, causing confusion and interference on other bridge VHF/FM.	Removed and taped lead to sensor.	Adonis
Satcom	21-Apr-88	Unable to get transmit request pulse. Found intermittent contact on J3 minicoax connector of 7DM synthesizer PCB 2A.	Straightened pin and re-aligned the connector.	Adonis
BC/SW Antenna dist. sy	09-May-88	Distribution system not working in some areas. Splitters and F connectors missing and miswired. System short and open circuited in various places throughout the system of ship.	Found improper cable hookup and shorted cables in various places throughout system - Made all corrections.	Adonis
Radar	07-May-88	Unit over heating and shutting down. Defective blower motor in blower assembly in indicator.	Replaced blower assembly.	Adonis
Radar	15-May-88	Display going off and on. Found defective interlock switch.	Bypassed interlock switch and ordered replacement switch assembly.	Adonis
SSB Transceiver	08-May-88	Intermittent operation.	Aligned and cleaned switches. Checked and repaired bad coax connectors.	Adonis
Receiver - main	12-May-88	Intermittent operation. Audio cutting out, frequency instable. 1KHZ selectivity had low sensitivity.	Disassembled unit. Cleaned card edges. Bad solder joint on selectivity PCB causing low voltage to switching diode for 1KHZ filter selection.	Adonis
Radar	17-May-88	Power supply unit cycling on and off.	Replaced	Adonis
Radar	20-Mar-88	Sees target but will not hold.	Aligned and replaced Ant. relay contactor.	ONI Dynechem
Radar	20-Mar-88	Out of alignment, hard tube arcing.	Aligned MTR and indicator. Replaced burned out lamps.	ONI Dynechem
Walkie Talkie	18-Apr-88	No audio output. Found shorted to ground wire in audio line.	Insulated wire so as to remove to ground.	ONI Hudson
Battery	18-Apr-88	0 voltage output (open in battery line)	Disassembled battery case and reconnected open wire.	ONI Hudson
Radar	03-Mar-88	No targets. Discovered MUPS record low voltage.	Replaced modulator tube.	ONI Hudson
Receiver	03-Mar-88	No audio output.	Replaced blown fuse in LV PS.	ONI Hudson
Receiver	22-Mar-88	No dial light making it impossible to determine tuned frequency. Power supply to this light had opened diode.	Replaced diode.	ONI Hudson
Antenna	03-Mar-88	No audio to elden FSK converter-unable to copy fax maps	Repaired open switch	ONI Hudson
Walkie Talkie	11-Aug-88	No audio output, found open wire in audio line.	Soldered connections.	ONI Hudson
Teletype	28-Aug-88	Reader operation intermittent tape.	Found interlock switch not making good connection. Operation tape now normal.	ONI Hudson

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Auto alarm	23-Aug-88	Unit testing intermittent.	Replaced normal/reset switch SPST toggle switch from spares.	OMI Hudson
Transmitter	06-Mar-89	Lost output, circuit breaker dropping out, apparent faulty final. (4CX1500B)	Replaced final tube 4CX1500B, adjusted IPA & PA bias to proper levels.	Overseas New York
Hand steering station	22-May-88	Two 50 Ohm 1 Wt resistors, part of a spark-suppression circuit in the hand steering system are both bad.	Replaced resistors with 50 Ohm, 2 Watt, components from radio room stock.	MV Cygnus
VHF	13-Aug-88	Audio very difficult to control.	Replaced volume control.	Overseas Ohio
Printer	11-Jan-89	Printer inop-lost all programmed memory. Will not accept inputs, keys will not energize.	Disassembled unit, inspected, cleaned, reassembled and reprogrammed.	Overseas Ohio
Raytheon VHF T/R	13-Feb-89	Emergency pwr supply for VHF inop.	Installed battery and charger for VHF.	Overseas Ohio
HF Exciter	22-Feb-89	CW exciter will not key xmtr.	Replaced pcb ray assy 600894-536-001. Tuned tx, ok.	Overseas Ohio
Transmitter	13-Feb-89	Transmitter inop. Smoking and odor.	Found 813 V6 open fil- R32 resistor burnt open. Replaced V6 and R32, systems ok.	Overseas Ohio
VHF	07-Jul-89	Static and transmitter cutting out.	Removed PCB's and cleaned contact pins, removed duplexer and simplex connections and cleaned.	Overseas Ohio
Antenna Transfer Switch	07-Jul-89	Switch loose and not making proper contact especially when switched to autoalarm and DF positions.	Overhauled switch.	Overseas Ohio
Transmitter	17-Feb-88	Arcing to ground in unit.	Replaced un-insulated coil lead.	MV Archon
Transmitter	17-Feb-88	Unit would not stay on frequency	Repaired carbon connection on PC board and poor solder joints. Cleaned dirty contacts on tuning drum.	MV Archon
Satcom	19-Feb-88	Unable to contact satellite	Found poor contacts in telegraphy board receptacle cleaned and re-initialized system	MV Archon
Emergency batteries	20-Feb-88	Emergency batteries (48 volt DC) terminals badly corroded. Battery voltage output low- top of battery cases wet and dirty.	Cleaned tops of battery cases-wire brushed all battery terminals, wire brushed all terminal clamps and replaced badly corroded hardware on jumper cables. Added water and charged.	MV Archon
Transmitter	29-Feb-88	Main xmtr would not load into antenna.	Removed antenna matching from reserve xmtr and installed on main.	MV Archon
Radar	26-Feb-88	Collision avoidance system dead	Pulled all p/c boards cleaned plug in contact	MV Archon
Satcom	17-Mar-88	Dead keys	Cleaned all key contacts	MV Archon
Fax	20-Mar-88	Copy is poor and only on left side	Cleaned internal part of Fax and aligned and adjusted stylus track	MV Archon

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Transmitter	21-Mar-88	Xmtr's coupler would not load to antenna.	Manual tuning of coupler whenever changing frequencies.	MV Archon
Satcom	22-Mar-88	Overload breaker in antenna dome on top of mast had kicked-Unable to set up system on satellite.	Reset	MV Archon
Main antennas	24-Mar-88	RF output on main xmtr unstable	Dropped all antennas, washed insulator.	MV Archon
Satcom	25-Mar-88	Top line on display different than bottom	Replaced video RAM	MV Archon
Antenna coupler	29-Mar-88	Main xmtr would not load int antenna.	Replaced numerous parts on p/c board damaged by water. Remounted feed thru insulator.	MV Archon
Satcom	04-Apr-88	Unable to comsat. Found circuit breaker in antenna xmtr out.	Reset.	MV Archon
EPIRB	05-Apr-88	Time for battery change	Replaced "O" rings, silicone lub and replacement antenna.	MV Archon
Emergency batteries	07-Apr-88	Emergency batteries specific gravity would not come up to a correct reading on hydrometer.	Replaced electrolyte.	MV Archon
Coupler housing	18-Apr-88	Reserve coupler erratic in tuning.	Removed feed thru insulator cleaned old weatherproofing from insulator hole-replaced rusty mounting bolts and caulking and remounted.	MV Archon
Emergency batteries	09-Mar-88	All battery cells check low and would not come up on hydrometer reading	Added electrolyte to each cell to cover plates and recharged for 24 hours at high rate.	MV Archon
Main antenna	10-Mar-88	M/F xmtrs would not load into antennas.	Dropped all antenna's, washed insulators-corrected problem.	MV Archon
Antenna System	04-May-88	Low freq. xmtr would not load to antennas.	Dropped antennas, cleaned salt and coal dust accumulation from strain insulators and feed thru insulators.	MV Archon
Receiver	26-Apr-88	Lack of sensitivity.	Found corroded P/C board contact in RF section, cleaned.	MV Archon
Satcom	27-Apr-88	Message memory lost.	Found used memory chip, replaced.	MV Archon
Satcom	28-Apr-88	System lock up.	Removed case from around telex. Directed fan on telex 24 hours a day.	MV Archon
Emergency Batteries	29-Apr-88	2 cells in battery system would not come up in the green on hydrometer.	Siphon out electrolyte and replaced with new electrolyte.	MV Archon
Satcom	30-Apr-88	Antenna lost ability to track satellite	Cleaned corroded cannon plug in dome xmtr.	MV Archon
Satcom	08-May-88	Antenna would not track-circuit breaker in antenna dome had kicked out.	Reset	MV Archon
RDF	09-Mar-88	R.D.F not sensing correctly. Located dry joint sense antenna download. Broken wire inside chassis leading to sense switch.	Replaced.	Mauí

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Radar	30-Mar-88	Loss of long range sensitivity	Replaced signal crystal, 60K6 IF amplifier and retuned system and TR	Maui
Radar	31-Mar-88	Tuning meter peak point at extreme end of rheostat. Poor tune.	Checked out IF strip, replaced 6AW8A and 60K6. Also replaced erratic-tuning klystron. Retuned system for normal performance with tuning meter rheostat peaking at mid-scale.	Maui
Radar	09-Apr-88	Video sporadically disappearing. Located miniscule dry joint in video PCB in display console, causing sporadic open-circuiting from vibration.	Soldered joint and secured capacitor involved with sealant.	Maui
Radar	08-May-88	Spoking on display.	Checked magnetron and retuned, including tr. no improvement. Fault due to trigger generator. Replaced and returned for good targets.	Maui
HF Ringer	22-Mar-88	No light or sound when called	Installed new antenna	Manulani
Receiver	21-Mar-88	Low sensitivity and low level of output signal.	Replaced capacitor in IF strip.	Manulani
Receiver	25-Mar-88	Low sensitivity.	Shorted Ant. and weak R.F. Amp. tube.	Manulani
Facsimile	06-Apr-88	No weather maps.	Repaired RF amplifier in receiver.	Manulani
Transmitter	09-Apr-88	Continuous transmit when keyed.	Replaced keying relay.	Manulani
Course recorder	21-Apr-88	No recording of ships course.	Replaced incorrect paper with correct paper, aligned and adjusted.	Manulani
VHF Radio	31-Mar-88	No charging of battery	Cleaned and adjusted contacts	Manulani
Radar	20-Apr-88	Excessive acquisition of targets in auto ACQ function.	Reduced sea return and gain to prevent locking on to sea clutter.	Manulani
Mariner 90 VHF	27-May-88	Pilot lost VHF communication	Repaired power cable	Manulani
Simplex clock	27-May-88	Incorrect time on APT simplex clock repeaters	Adjusted and repaired defective switch	Manulani
Loran C	18-Jun-88	Poor SNR	Cleaned grounding at antenna mount & SNR	Manulani
Receiver	20-Jul-88	No audio out to headphones	Resoldered headphone distribution table outlets.	Manulani
Radar	10-Aug-88	Weak targets.	Tuned L.O. to center panel tuning KNOB.	Manulani
Simplex clocks	14-Aug-88	Clock stopped (1 repeater)	Cleaned and adjusted contacts.	Manulani
Transmitter	15-Aug-88	Low power output, shorted screen grid line.	Replaced wire.	Manulani
Simplex clock	28-Aug-88	All clocks 3 minutes fast.	Adjusted master.	Manulani
Radar	28-Feb-89	No ant rotation & loud hum from mtr.	Adjusted power relay in mtr.	Manulani

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HF radio ringer	01-Mar-89	Lights would light indicating band when call received but no sound from ringer.	Repaired defective audio oscillator.	Manulani
Radar	05-Mar-89	Weak targets.	Adjusted L.O. to center tuning.	Manulani
Radar	05-Mar-89	Defective clock hour timer.	Removed & ordered new one.	Manulani
EPIRB	02-Mar-89	Low output power.	Replaced battery.	Manulani
Receiver	15-Mar-89	Frequency read out incorrect.	Aligned oscillator section.	Manulani
Simplex clocks	14-Mar-89	Incorrect time on clock.	Adjusted contacts.	Manulani
Radar	03-Apr-89	Weak video.	Aligned indicator video circuitry.	Manulani
RDF	12-Apr-89	Inoperative.	Sense adjustment capacitor shorted. Replaced with new hardware.	Manulani
Receiver	29-Apr-89	Low sensitivity.	Replaced RF amplifier.	Manulani
Extel Teleprinter	08-Apr-88	All led's lit. i.e. connect, power, send, alarm, sev-off led's unit would not go through initialization procedure at turn on and all led's would stay on - keyboard would not function.	Replaced main CPU board. Was necessary to change ROM'S and EPROM'S from defective CPU board to spare board.	President Monroe
EPIRB	04-Apr-88	Led did not light when tested.	Bad solder connection at junction of Led1 and L12. Resoldered. Also screws loose attaching water-switch at base of unit - removed base and retightened screws.	President Monroe
SAT-NAV	09-Apr-88	Too much intensity and double digits on display and not steady. Raster was visible.	Cleaned boards, fan, VDU and pots. Adjusted intensity control, height, reinstalled VDU boards.	President Monroe
Radar	10-Apr-88	Weak targets only to 4-5 miles.	Retuned local oscillator-ship targets to 24 miles.	President Monroe
Modem	09-Feb-88	Modem would not connect to line	Replaced reed relay	President Lincoln
Receiver	02-Mar-88	S Meter defective	Replaced	President Lincoln
Marine FAX	05-Mar-88	FAX would not phase	Replaced phasing contact/ass'y	President Lincoln
EPIRB	05-Dec-89	EPIRB not transmitting when in water.	Replaced membrane to activate pressure switch when emersed in water & cleaned corrosion from salt exposure & excess silicone grease inside beacon tube.	President Lincoln
Receiver - Auto Alarm	01-Dec-89	Faulty reset switch action.	Replaced faulty switch.	President Lincoln
Transmitter	20-Sep-89	Intermittent operation.	Repaired cold solder joint at antenna output jack.	President Lincoln
JRC-29 FAX:Antenna	06-Apr-88	Weak map signals	Repaired broken antenna	President Roosevelt
Radar	07-Apr-88	Intermittent problem.	Replaced PCB.	President Roosevelt
Radar	22-Apr-88	Panel lights all out. Loose wire from power supply.	Repaired.	President Roosevelt

Equipment	Date	Problem	Remedy	Ship Name
Radio FAX receiver	25-Apr-88	Broken stylus, pitted stylus guide	Installed new stylus and stylus guide	President Roosevelt
Transmitter	29-May-88	No output and no drive to tubes. High voltage switch appears intermittent.	Found relay K-502 in high voltage power supply not pulling when high voltage energized. Arranged for new relay be air freight forwarded to next port.	President Buchanan
Radar	01-Mar-88	Jumping vectors.	Replaced 6 PROM's with factory redesigned PROM's.	President Arthur
Radio Console	05-May-88	Battery charger has not output voltage.	Incorrect 5-amp fuse blown. Replaced with correct 10-amp fuse.	President Arthur
FAX	18-May-88	Distorted images, noisy operation.	Replaced 3 stylus pins and lubricated drive unit.	President Arthur
Engine Room Monitor System	28-May-88	AC/DC power supply has no output voltage.	Installed backup PS. Defective supply has a bad chopper transistor, part not available. Board mailed to California for repair.	President Arthur
Radar	20-May-88	ARPA unit will not acquire targets.	TM data unit has unstable oscillator. Installed 5pf capacitor per telex instructions for factory technician.	President Arthur
Transmitter	10-Nov-88	During daily noon tests, no output indicated on R.F. meter.	Found main xmtr h/v fuse blown, replaced.	President Arthur
Satcom	30-Oct-88	Will not print.	Plug had fallen out from back of printer-replaced same.	President Arthur
FAX	27-Oct-88	Very poor definition	Removed/replaced three stylus needles, adjusted/aligned three stylus drivers in accordance with fax manual, cleaned out machine and oiled parts.	President Arthur
EPIRB	02-Jan-89	Antenna corroded off unit.	Temporary repairs effected by soldering antenna onto unit.	President Arthur
Satcom	06-Jan-89	Fault indicator flashing on BDEU-Received garbled telex. On line test indicated transmitter would not show short burst.	Status alarm verified xmtr disabled. Checked above deck unit and found connector which had apparently vibrated loose. Secured as needed.	President Arthur
MRU-35	08-Jan-89	Bandswitch slipping internally.	Removed linear amplifier panel-tightened set screws on bandswitch assembly.	President Arthur
MR-761-19 MOD2	26-Sep-88	Main/reserve antenna switch not making good contact and sometimes miss aligned with contact making no contact.	Found hardware missing that holds contact strips apart to make tension/mechanical contact with antenna post. Replaced with #10 screws, nut and lock washers.	Cague
EPIRB	20-Sep-88	Radio beacon battery expiration date past due.	Replaced battery.	Cague
Telegraph keys/headphone	30-Sep-88	Broken phone plugs on two telegraph keys and on set of headphones	Replaced 3 phone plugs that were defective.	Cague

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VHF Marine Radioteleph	05-Sep-88	Bridge control indicator and dial lights not working.	Replaced dial lights and indicators.	Caguas
Receiver	24-Sep-88	No signals. Attenuator switch does not work.	Disassembled, cleaned PCB connections -reassembled Found broken wire to attenuator switch, Re-solder wire to ground.	Caguas
Satellite Navigator	29-Sep-88	Auto gyro function does not work.	Installed new group IV jumpers for 60 vrms operation.	Caguas
Receiver	18-Oct-88	Attenuator does not work causing overload of frontend of receiver especially when near port. Found broken wire to attenuator ground circuit. Variable CW pitch unstable.	Replaced wire, cleaned circuit boards and edge connectors cured CW pitch instability.	Caguas
Handie talkie	18-Oct-88	Would not transmit. Push-to-talk microswitch had poor solder connection to printed circuit board.	Re-soldered, re-assembled and tested ok.	Caguas
Lifeboat transceiver	10-Oct-88	Unable to get unit to test into dummy antenna.	Replaced defective ground lead to test set dummy antenna. Replaced desiccant cartridge, cleaned and tested all modes to frequencies.	Caguas
Radar	09-Jun-88	Wedging of display intermittantly missing sections of display.	Adjusted R54.	Adonis
2182KHZ Transc. power	22-Oct-88	Alternating current (1.2vac) on 12vdc output of power supply causing excessive hum from receiver and on transmitted signal.	Found leaky bridge rectifier (hooked up one sided for straight fullwave rectifier). Replaced bridge circuit. Cleaned unit and re mounted.	Caguas
Transmitter	24-Oct-88	Unstable operation. Broken knob on antenna tuning coarse control.	Tightened all connections, cleaned circuit boards and components. Replaced broken tuning knob with new one.	Caguas
Transmitter	25-Oct-88	No high voltage to main (medium frequency) transmitter. Found micro-switch for interlock in front pannel-lower not actuated.	Adjusted panel and tighten mounting screws of switch for good solid closure when panel is in place. Cleaned inside of panel excessive dust/dirt accumulation and re-assembled.	Caguas
Radar	29-Apr-88	Picture dull and lacks brightness.	Installed new crystals. Cleaned face of picture tube. Brightness now normal, picture sharp and clear.	Puerto Rico
Regency 5000XL VHF	02-Jul-88	Failure of 12 VDC power supply for VHF transciever.	Found defective 7812 three terminal regulator. Replaced with spare.	Puerto Rico
Receiver	16-Feb-88	Lost AF output.	Replaced faulty IC from AF amplifier PCB.	Overseas Juneau
Radio Console	18-Feb-88	No AC input to equipment.	Replaced isolation transformer (T-102).	Overseas Juneau
VHF	09-Mar-88	Operation not satisfactory.	Replaced with new model.	Overseas Juneau
Transmitter	11-Mar-88	Unable to key on A1 mode.	Found transistor (Q2) on mode switch assembly of exciter shorted. Replace transistor.	Overseas Juneau

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Engine room vibration	22-Mar-88	Connecting cable w/amphenol connectors either end-cable wires broken internally plus tore loose from connector on one end-operators twisting wrong part of cable connectors	Trimmed cable to good wires, reconnected to amphenol connector trapped "fixed" part of connector so operators can only turn proper rotatable part.	Overseas Juneau
VHF Radio Set Radiotelephone	24-Mar-88	Unable to key xmtr, no modulation from remote on bridge. Found broken wire GND common and loose connection mike circuit..in handset cradle of bridge remote control unit.	Reconnected wire, tighten connections. Set muting and gain controls, check power output.	Overseas Juneau
Radar	22-Apr-88	Not picking up distant targets, weak display.	Replaced magnetron type M5187 with new spare (JRC M187) Set now working properly after touching up tuning.	Overseas Juneau
Transmitter	29-Apr-88	Power output fluctuating and dropping way off, not loading properly.	Replaced final & driver tubes-adjusted ppc control iaw inst. manual for proper output.	Overseas Juneau
Radar	09-Mar-87	Erratic performance due to poor air flow from fans.	Replaced fans. Adjusted power supply for correct output.	President Hoover
Radar	21-Mar-88	Noisy rotation.	Replaced gear box.	President Hoover
Radar	02-May-88	Switch for CAP/TCPA intermittent	Weak spring and contact action. Replaced and adjusted.	President Hoover
Radar	18-May-88	No ANT rotation at times.	Replaced oily drive belt.	President Hoover
Gyro	02-Feb-88	Severe jumping or hunting of gyrocompass. Would cause the main repeater at helm to violently jump back and forth.	VR R-6 was adjusted to bring voltage to proper reading and VR R-13 was adjusted to bring freq. to 400Hz. Horizontal and vertical servo amp gain adjustments made according to manual instructions.	President Garfield
Facsimile	31-May-88	Poor quality pictures.	Replaced all 3 styli and one screw.	President Garfield
Radar	28-Jun-88	Radar periodically quits, no echos, no TX pulses, no brilliance on CRT.	Checked for power failure, main voltage is present. No service manual or spare parts on board.	President Garfield
Receiver	06-Jul-88	Erratic operation of audio and RF gain controls.	Sprayed controls with cleaner. Operation is now normal.	President Garfield
Antenna	16-Jun-88	Antenna was coming apart midway.	Antenna was taken down and lock-tight was put on threads to keep joint tight. Water-proofed the connection and antenna was put back up.	President Garfield
Engine Console	25-Jun-88	Equipment powered but power supply not functioning properly.	Supply was removed and tested but found no problems. Supply was taken ashore for more testing.	President Garfield
Radar	02-Jun-88	Complaints of ARPA not functioning properly. No readout of computer data, system fault light on top panel is blinking.	Went through ON and OFF LINE diagnostics, found no bad data. Noticed track button not in proper position. Depressed button and tracked several targets. Operation is normal, Operator error.	President Garfield

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Linear Amplifier	06-Jul-88	Found burned RF choke in plate circuit of final amplifier tube. Antenna tuning unit will not tune to "Ready" condition.	Replaced RF choke, checked for proper operation, now OK.	President Garfield
Multi-Booster/ Video A	04-Aug-88	Exchange of DC voltage from Nippon to Radio Shack causing power supply to go into Over-Current "SENSE".	Added one 10pf capacitor to output circuit of Radio Shack amplifier, to isolate it from the DC voltage.	President Garfield
Handie talkie	12-Aug-88	Center pin of BNC connector on ant. was broken off	Removed broken pin from female chassis BNC, did not have replacement ANT, so used a female UHF to male BNC to attach ANT to HT.	President Garfield
Video monitor	20-Aug-88	Monitor did not work, no indicator lamp lit	Replaced problem 7812 voltage regulator	President Garfield
Battery charger	21-Aug-88	The battery charger did not work. A diode was burned.	Replaced the diode.	President Garfield
Antenna coupler	13-Oct-88	6 amp fuse in ant coupler blows during tuning cycle.	The crow bar circuit is at fault. Disconnected the circuit by lifting one lead of the zener diode.	President Garfield
Antenna coupler	30-Oct-88	Antenna coupler is blowing 6 amp fuses again.	Copper trace on pc board was burned in half. Will be replaced by ITT.	President Garfield
UHF Bridge Radio	30-Oct-88	To improve communications between the bridge and engine room it was decided to install a 30 watt base station radio on the bridge.	Installed the antenna, run transmission line in overhead, installed power supply, base station radio, ext. speaker, and microphone, checked for proper ops.	President Garfield
Magnetic compass	11-Nov-88	Helms men complaining that they could not read magnetic compass.	Disassembled compass on bridge end & on flying bridge. Found moisture in telescope, dried lenses also replaced screen glass on bridge end.	President Garfield
Radar	08-Nov-88	No targets, no sweep.	Found blown fuse on inverter chassis, changed both tubes because they had been in str for many hours.	President Garfield
Fathometer	11-Nov-88	After the digital display readout unit was installed a collector rail assy made of bakelite had to be installed to prevent a malfunction of the digital readout unit.	Installed new rail assy, adjusted the recording belt tension, and the collector rail itself for smooth operation. Also greased and oiled all gears at the same time.	President Garfield
Satnav	29-Aug-88	Satnav receiver will not function at all. Can not determine which unit is at fault, processor or receiver.	A complete receiver and processor was shipped and installed. Functions well.	President Garfield
Radar	29-Aug-88	Problem in the pulse forming network in MTR case.	New modulator shipped and installed.	President Garfield
Fathometer Dig. depth	17-Sep-88	Mates requested that a digital readout display for the fathometer be installed.	Digital depth indicator was shipped and installed.	President Garfield

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Computer Monitor	11-Oct-89	Video monitor did not work.	Power transformer had open primary winding. Disassembled transformer and found open circuit. Adjusted both vertical and horizontal size of picture.	President Garfield
Lifeboat Radio	29-Sep-89	Tested battery power for lifeboat radio and found no voltage on connector going to lifeboat radio.	Located broken wire, replaced defective charge switch.	President Garfield
Radar	23-Sep-89	Weak targets.	Replaced magnetron, both Xtals and retuned radar.	President Garfield
Gyro Compass	06-Oct-89	No alarm on bridge to indicate a failure of gyrocompass.	Cable was installed between gyro room and bridge. Alarm panel was removed for control box in gyro room and re-installed on the bridge.	President Garfield
Watch Receiver	09-Oct-89	Cracking noise from remote receiver when ship is in rough seas.	Found capacitor had loose wire on positive lead. Soldered connections. Cleaned all pots and connections.	President Garfield
Computer Monitor	08-Oct-89	Two monitors had improper horizontal and vertical size.	Made adjustments.	President Garfield
Distribution Amplifier	31-Jan-88	No AM reception.	Replace audio amplifier tube. Operation now normal.	President Harrison
Fecsimile	04-Feb-88	Distorted picture.	Replaced stylus strip and spring.	President Harrison
Radar	08-Feb-88	No presentation at indicator.	Found interlock switch defective. Adjusted contact bracket.	President Harrison
Walkie Talkie	12-Feb-88	No transmit.	Found keying line open. Cleaned & resoldered.	President Harrison
Radar	09-Feb-88	No indicator presentation or lights.	Replaced blown fuse in Low Voltage Power Supply & cleared shorted wiring harness lead.	President Harrison
Watch Receiver	26-Feb-88	Watch receiver antenna lost in heavy weather.	Replaced and ran new coax cable.	President Harrison
Sat Com	09-Mar-88	Lost signal.	Found blown fuse in LMA. Replaced fuse, operation normal.	President Harrison
Radar	12-Mar-88	No high voltage.	Found chopper drive open. No spare board or HVPS on board. Jumper wired chopper line around open circuit.	President Harrison
Fathometer	25-Mar-88	Weak or erratic trace when in auto mode.	Found bad FET (Q202) on receiver PCB. Replaced and returned to normal.	President Harrison
Fathometer	27-Mar-88	No stylus movement.	Found bad depth range switch. Detents badly worn. Cleaned switch with spray cleaner, returned to service, operation normal.	President Harrison
Antenna	04-Apr-88	Lost one bridge VHF antenna in heavy weather.	Replaced with new antenna and bracket.	President Harrison

Equipment	Date	Problem	Remedy	Ship Name
Antenna	29-Mar-88	Reserve antenna broken at trunk lead-in during heavy weather.	Trimmed frayed end, attached new terminal and secured to trunk.	President Harrisor
Radar	02-Apr-88	Awaiting new HVPS to replace old one running on temporary repair.	Received new HVPS module. Installed and aligned LVPS & HVPS.	President Harrisor
Computer	05-May-89	Erratic disk access after computer is warmed up.	Found defective IC on disk drive interface board. Replaced board with one purchased in Hong Kong (no spare available).	President Grant
Transceiver	10-Jan-88	Will not load on any frequency.	Normal RF output during tune cycle as noted on scope. Traced and located a defective antenna transfer switch. Contacts had loosened and separated.	President Taft
Radar	12-Jan-88	Radar dead. No LED indication at ON/OFF switch.	Traced and located one defective chopper (2M6545) in LVPS. Replaced both choppers and aligned LVPS.	President Taft
Radar	17-Jan-88	Very noisy and distorted gain.	In absence of proper part, installed a Raytheon 1K gain potentiometer.	President Taft
Radar	14-Feb-88	Very weak targets and coast line.	Observed low magnetron current. Checked modulator bias, pulse widths and PRF's, all OK. Replaced magnetron, aligned and adjusted and retuned for maximum targets.	President Taft
Radar	28-Feb-88	Mates complaining that RAYCAS is dropping targets on small fishing boats.	Adjusted input voltage to video amplifier.	President Taft
Facsimile	30-Jan-88	No fast feed function.	Traced to loose plug on motherboard.	President Taft
Facsimile	14-Feb-88	Fast feed motor shaft sheared.	Replaced motor.	President Taft
Radar	10-Jun-88	CRT brilliance intermittently dropped out to practically nothing. Unable to adjust.	HV model shipped and installed.	President Taft
SSB Transceiver	11-Jun-88	SSB transceiver would go haywire when turned off.	Ordered replacement and installed.	President Taft
Satnav	24-Jul-88	Front panel enter key defective.	Installed new board.	President Taft
Depth Sounder	09-Jun-88	Incorrect depth recordings.	Ordered and installed new recording motor.	President Taft
SatCom	11-Mar-88	Lost program for tracking due to ship maneuvering	Reprogrammed satcomm antenna scan	O/S Alice
VHF set	10-Aug-88	Faulty reserve P/S (battery)	Replaced faulty unit with new "PowerSonic" model.	Overseas New York
CAS (digiplot)	26-Aug-88	Losing display, intermittent and abnormal display	Found "cog" pcb loose from bracket retaining screws. Contacts on pcb vibrating and shorting against frame and grounding out-causing loss of htps and shorting yoke.	Overseas New York

Equipment	Date	Problem	Remedy	Ship Name
Loudhailer	28-Aug-88	Not working, no power to unit (12v d.c.) When new P/S installed for vhf set the leads for the ray 350 were not connected.	Dressed leads with new connectors and connected P/S unit.	Overseas New York
Ships call system	28-Aug-88	Bridge unable to hear foc'sile head and stern fog signal not working.	Cleaned and dried unit, cleaned all connections, redressed cable run into speaker which was open allowing water to enter spkr junction box. Cleaned pcb connections.	Overseas New York
C A S (digiplot)	04-Sep-88	Display had been intermittent	Replaced HVPS, adjusted and aligned display.	Overseas New York
Digiplot	09-Sep-88	Digiplot lost digital data readout.	Relplaced "lid" PCB and "con" PCB.	Overseas New York
Navigation light panel	19-Sep-88	Relays hanging up.	Cleaned relays, relay contacts & replaced lamps	Overseas New York
H/F SSB Set	19-Sep-88	Faulty high voltage power supply inter-lock.	Disconnected short-replaced plunger screw with longer one. Utilized nut to tighten screw in place.	Overseas New York
Main receiver	22-Sep-88	Minor analog board very unstable, at times losing signals all together.	Replaced minor analog PCB with spare.	Overseas New York
Handi-talkie FM Radio	26-Sep-88	Intermittent operation.	Cleaned connections, noticed movement of RX PCB caused set cut in and out-loosened same, re-tightened and set now working properly.	Overseas New York
Watch Call Annunciator	26-Sep-88	Several indicator lamps out-no rings thru to some rooms.	Replaced lamps, cleaned all relays on panel.	Overseas New York
SSB HF Receiver	26-Sep-88	Lost audio output, signals still apparent rf/af meter. Found RY3 had fallen out of its socket. Also noticed MRU35 harmonic filter not in antenna circuit.	Plugged relay back in, set working normal.	Overseas New York
Radar	11-Oct-88	Sweep, range ranges out of cal.	Adjusted timebase, velocity (RV601) (RV602) readjusted preset brilliance.	Overseas New York
Radar	22-Oct-88	Picture undulating (hunting trigger) on short ranges.	Readjust input regulator, inverter and trigger, set up proper voltages.	Overseas New York
ITT portable lifeboat	11-Nov-88	Generator drive chain jumped off sprocket.	Disassembled unit, replaced chain on sprocket and tightened.	Overseas New York
Radar	30-Dec-88	CKT breaker open on inverter board 651218T which causes indicator unit to be inop. Prior, experienced weak fading targets. Frequent retuning required.	Resoldered spring wire back to R252 on inverter board. Changed magnetron and adjusted coarse tuning pot.	Overseas New York
Radar	02-Mar-89	Old radars removed from ship and new radars installed during shipyard period.	New Raytheon pathfinder st, raster scan radars installed while ship in shipyard Tampa, FL.	Overseas New York

Equipment	Date	Problem	Remedy	Ship Name
Selective ringer encoder	03-Mar-89	Tones not modulating H/F SSB set MR 735 also 2182KHZ tone generator not modulating. Both generators use same cable to MRU35 exciter. Faulty cable wiring.	Ran new cable from the tone generators to MRU35 exciter, now operating okay.	Overseas New York
Marisat antenna dome	07-Mar-89	No transmit- found dome trap door interlock switch turned off by vibration of ship while anchoring. Door latch broken off due corrosion.	Re-mounted both door latches with anti-corrosive tapcon screws.	Overseas New York
SSb/HF XMTR	06-Mar-89	Arcing in filter unit, affecting loading of MRU35 linear. Found faulty switch STA.	Replaced switch wafer and realigned unit. Operating normal.	Overseas New York
Transmitter	19-Apr-89	Low or no grid drive to final.	Replaced 6146 multiplier tube.	Overseas New York
Transmitter	26-Apr-89	Lost A2 modulation.	Replaced shorted capacitor, parallel resistors.	Overseas New York
Hand Transceiver	29-Aug-89	No signals.	Found broken battery contact. Soldered broken contact. Cleaned all contacts & housing.	Overseas New York
Radar	27-Mar-88	When NSK switch in in head-up position, the radar Y-Axis is missing.	Replaced relay.	ST Overseas Natalie
Satellite	18-Mar-88	Blown fuse.	Replaced blown fuse f-11.	ST Overseas Natalie
Radar	04-Apr-88	No targets on display.	Replaced modulator tube.	ST Overseas Natalie
Radar	21-Apr-88	Radar dead. Isolated problem to indicator module A-1.	P.S delivered - Installed and adjusted.	ST Overseas Natalie
Radar	27-Apr-88	No far out targets.	Replaced magnetron. Made adjustments, modulator and magnetron. Also replaced receiver-crystal.	ST Overseas Natalie
Radar	21-Mar-88	Routine check of antenna gear box and oil levels.	Climbed mast and checked antenna and oil levels.	ST Overseas Natalie
Radar	17-May-88	Radar completely inop. No low voltage.	Replaced transistor(2N6543) in LVPS.	ST Overseas Natalie
Radar	23-Jun-88	Targets on display are intermittent.	Modulator anode load resistor was burnt. Replaced resistor, unit working normal.	Mormacsun
Sat Nav	20-Jun-88	No satellite fixes.	Checked impedance at amplifier, showing infinity. Checked connectors at antenna found water leakage and corrosion. Installed new coaxial and antenna amplifier. Working normal.	Mormacsun
Radar	07-May-88	Smoke and odor coming from indicator unit. Sweep lost, CRT dead.	HV flyback transformer arcing and 183 HV rectifier arcing. Replaced flyback transformer and 183 from ships spares.	Genevieve Lykes
Radar	03-Jun-88	Circuit breaker tripped and will not reset.	Found shorted diode on power supply control PCB. Replaced, normal operation restored.	Genevieve Lykes

Equipment	Date	Problem	Remedy	Ship Name
Radar	04-Jun-88	No variable range marker ring.	Found pick-off diode tube (V-116) bad. Replaced, normal operation resumed.	Genevieve Lykes
Radar	19-Sep-88	Scanner screeching badly.	Entire scanner unit replaced in shipyard.	Genevieve Lykes
Lifeboat transceiver	01-Sep-88	One tooth broken off on handle on left side.	Handle replaced by Mackay	Genevieve Lykes
Fathometer	22-Sep-88	Paper not being marked after unit on 5 mins or so.	Re-adjusted paper advance transport mechanics and sync. marker needle to chart.	Genevieve Lykes
Marine HVF handi-talkie	27-Nov-88	Locked into transmit mode.	No replacement. Brought switch leads outside case and fabricated outboard switch from old telephone hangup switch.	Genevieve Lykes
HF/MF Receiver	21-Apr-88	No audio output from speaker, found rosin joint at base of terminal board where speaker connects to speaker on/off switch.	Resoldered and regained normal operation.	MV Cygnus
Teletype rec. for satnav	29-Apr-88	Line feed mechanism not working, causing data to be overprinted on paper. Recorder is only hard copy record from Satnav system.	Adjusted spring tensions in line feed linkage and lubricated.	MV Cygnus
Auxiliary switch panel	19-May-88	Intermittent loss of sensitivity in both main and reserve receivers caused by dirty, worn out, receiving antenna selector switch.	Cleaned and lubricated switch.	MV Cygnus
Receiver	22-May-88	No audio from loudspeaker.	Replaced loudspeaker.	MV Cygnus
Daylight signalling lamp	25-May-88	Signal light inoperative.	Repaired jammed shutter assembly, cleaned optics, replaced defective lamp, traced ships wiring and found bad ac power switch, lubricated, and realigned optics.	MV Cygnus
Autopilot steering station	13-Jun-88	Four 50-Ohm resistors were suspected bad.	Found 2 bad 1/2 Wt, 50 Ohm resistors. Replaced all four resistors with 2Wt 50 Ohm resistors.	MV Cygnus
Radar	24-Oct-89	A2A2 and A2A6/Ack LEDs out. Fuse blown in LVPS. Inadvertently replaced 1/4amp fuse with 1-1/4amp fuse and Pulse Driver PCB R-13 smoked.	Replaced Pulse Driver PCB and installed correct fuse in LVPS.	Chestnut Hill
Transmitter	15-Aug-89	Frequency switch knob turning on shaft because shaft chewed badly and set screws could not grab.	Filed flat surface for set screw to grip.	Chestnut Hill
Satcom	20-Aug-89	Terminal down. Terminal ready and TDM DSMOD lock lights out. Signal strength good.	Opened BCU drawer and directed fan on TDM DSMOD. Temperature in radio room 95°. Terminal restored to service.	Chestnut Hill
Transmitter	24-Mar-89	Low RF output.	Replaced final tubes.	Sheldon Lykes
SITOR	16-Mar-88	Carriage drive belt defective.	Replaced all 3 drive belts.	Stella Lykes
Radar	23-May-88	No picture - smoke pouring out indicator - traced fault to component short on PCB	About 1 doz. components fried. PCB non-repairable-replaced defective PCB in ind power mod.	Stella Lykes

Equipment	Date	Problem	Remedy	Ship Name
Radar	29-May-88	Intermittent loss of video when changing ranges.	Lowered magnetron current slightly and adjusted magnetron heater current.	Stella Lykes
VHF	08-May-88	Unable to change channels.	Cleaned keyboard contacts.	Stella Lykes
Radar	18-May-88	Loss of picture.	Indicator interlock switch not making contact. Adjusted switch and tightened loose screws.	Stella Lykes
Radar	08-Jun-88	RAYCAS unable to capture and hold targets.	Adjusted sweep gain and radius.	Stella Lykes
Radar	08-Jun-88	Picture going in and out of focus.	Replaced and adjusted IND power module.	Stella Lykes
Walkie-Talkie	04-May-88	Complaint of charger not working.	Bulbs were burned out. Replaced bulbs.	Stella Lykes
Radar	16-Jun-88	Range knob broken	Super glued parts	Stella Lykes
Radar	19-Jul-88	Intermittent loss of picture	Replaced magnetron	Stella Lykes
Fathometer	18-Jul-88	Recorder not showing bottom. Indicator not registering	Replaced 4 tubes, cleaned contacts, adjusted gain	Stella Lykes
Anemometer	26-Jun-88	Wind meter not registering - No current from generator	Dismantled generator, replaced bearing rewire, remount on standoff bracket	Stella Lykes
Bridge VHF	23-Jul-88	VHF led number section does not light	Installed new one	Stella Lykes
Radar	28-Jul-88	Ship blacked out - Power failure	Indicator fuse replaced	Stella Lykes
Fathometer Indicator	03-Aug-88	Blank indicator	Bent contact	Stella Lykes
Antenna Switch	16-Aug-88	Plastic ratchet gear wheel slipping on shaft. No antenna to receiver. Nothing heard.	Removed completely assembly. Removed gear, drill, tap and lock on shaft.	Stella Lykes
Radar	24-Aug-88	Ship blacked out.	Found indicator power supply inoperative. Replaced power supply.	Stella Lykes
Radar	15-Sep-88	Would not turn on from standby position.	Sprayed de-greaser contact cleaner on switch.	Stella Lykes
VHF	15-Sep-88	Unable to change channels (intermittent)	Disassembled-removed silicone rubber adhesive sealant from around keypads and keys, reassemble, received loud and clear radio check from shore station.	Stella Lykes
Battery charger	24-Nov-88	Not working.	Replaced diode on pcb.	Stella Lykes
VHF	27-Oct-88	No range of transmission, excessive static and noise.	Removed, disassembled-cleaned on/off, volume potentiometer with contact cleaner, degreaser, reassembled, installed. Tested ok.	Stella Lykes
Auto alarm	15-Mar-88	Tube filament opened	Replaced new tube	Mason Lykes
Receiver Antenna	02-Apr-88	Strong scratchy noise on main receiver. A receiver antenna broke and fell on main antenna.	Repaired antenna.	Mason Lykes

Equipment	Date	Problem	Remedy	Ship Name
Marisat	11-Apr-88	During the night someone shifted the Atlantic satellite to the Indian Ocean and the Indian Ocean satellite to the Atlantic.	Returned the right way.	Mason Lykes
Radar	09-Apr-89	Both systems dropped off, no video.	Removed front covers, switched power supplies off, climbed radar mast, toggled on/off switches to both arrays/MTRs. Noticed ships line voltage fluctuations checked, 9-volt swing. Put radars back on line.	Overseas Ohio
Watch Receiver	27-Apr-89	Muting system on both sets not working.	Disassembled 1511R, checking Q3 transistor - OK, reassembled. Installed muting systems, now operating.	Overseas Ohio
Radar	18-May-88	CRT picture too weak to meet coast guard requirements for vessel to sail.	Adjusted OSC tuning for normal picture on CRT. Also adjusted the Raytheon CAS for peak output.	Almeria Lykes
Communications Satellite	16-Jun-88	Satellite became inoperative. Diagnostic program readout listed problem as "TX Disabled"	Re-set the TX reset switch in the antenna dome.	Almeria Lykes
Radar	29-Oct-88	No modulator high voltage.	Lifted magnetron filament leads and modulator high voltage returned to normal. Replaced 2J55 magnetron, and retuned the front end to restore normal operation.	Almeria Lykes
Radar	30-Dec-88	No targets	Replaced defective 2J55 magnetron and returned front end	Almeria Lykes
Radar	09-Jan-88	Unit would not operate on any range under 6 miles. Relay K1 on the trigger/STC generator PCB and relay K1 on driver PCB are responsible for putting MTR into short pulse mode.	Burnished all contacts and replaced.	Charlotte Lykes
Antenna Coupler	13-Jan-88	Unit fails to tune through a complete cycle and "TX" led inside meter does not light on MSR 6408 coupler control unit.	Found 6 amp 32 volt fuse blown in coupler unit. Replaced.	Charlotte Lykes
2182 watch receiver antenna	14-Jan-88	In storm force winds broke the fiberglass ship antenna off.	Rigged temporary wire antenna to keep unit operational until replacement.	Charlotte Lykes
Radar	09-Feb-88	Loud banging noises coming from 10cm scanner assembly.	Found 2 of 4 bolts which hold this scanner to the mast had worked loose allowing scanner to bang against mast. Resecured using lockwashers and nuts.	Charlotte Lykes
2182 watch rec. antenna	10-Feb-88	Broken antenna.	Replaced	Charlotte Lykes
Emergency radiotelephone	12-Feb-88	Batteries no longer hold charge and specific gravity can not be raised higher than 1.240 even after heavy 10 amp charge.	Requisitioned new batteries.	Charlotte Lykes

Equipment	Date	Problem	Remedy	Ship Name
Portable aldis lamp	27-Feb-88	Portable aldis lamp not working. Found nicad battery pack badly corroded and cells almost totally dead.	Cleaned all battery posts, checked fluid level and rigged temporary charger for these batteries.	Charlotte Lykes
Satellite Navigator	03-Mar-88	No satellite fixes. Antenna connector hanging loose.	Re-connected and weatherproofed.	Charlotte Lykes
Radar	21-Jun-88	No picture-F2 (HV PS) blows.	Replaced bad magnetron and modulator and driver as a set	Charlotte Lykes
D/F Sense ANT	30-Jul-88	D/F sense ANT parted at feed thru insulator	Repaired with new wire terminal	Charlotte Lykes
Portable L/B Station	15-Aug-88	Aluminum pop rivets holding cover hinges parted	Drilled out and replaced with zinc plated machine screws	Charlotte Lykes
Emergency Transmitter	02-Feb-89	No output. 0 antenna current.	Corrosion causing poor to nil contact between output plug and mating socket. Cleaned and now ok.	Charlotte Lykes
AM/shortwave amp system	02-Feb-89	4 protective back to back diodes had been removed from circuit.	Obtained and installed 4 new diodes to restore protective action of back to back diodes.	Charlotte Lykes
Receiver	11-Mar-89	No reception of certain stations and perfect reception of others.	Problem was only on stations tuned in with an 8 in the digits column of the digital switch assembly. Had ordered replacement last trip. Installed new one, works ok.	Charlotte Lykes
Radar	11-Mar-89	Fuse F1 repeatedly blowing. Found hour meter had shorted causing CR12 & CR13 to short which in turn caused secondary to ground short in power supply transformer T4	No spare on board. Telexed ahead to have new T4 on arrival. Installed new transformer.	Charlotte Lykes
Antenna transfer switch	22-Mar-89	No antenna current with any transmitter.	Found braided wire on rotor of switch frayed and broken. Replaced.	Charlotte Lykes
SSB whip transmitting	24-Mar-89	Top half of transmitting vertical whip antenna unscrewed and about to go overboard.	Found 2 Phillips head set screws had backed off allowing top half of antenna to unscrew with ships vibration. Re-secured and now ok.	Charlotte Lykes
Marisat mobile terminal	25-May-88	Loss of 20V to LNA. Q9, Q13 on MPST board shorted.	Disabled pitch and roll circuit.	Green Valley
Radar	27-Jun-88	Weak targets.	Replaced XTALS, retuned.	Green Valley
Radar	26-Oct-88	Loss of video after several hours of operation.	Replaced mod tube.	Green Valley
Mariner 1511R Watch Re	29-Sep-88	Antenna lead-in wire broken.	Repositioned antenna. Tightened mounting brackets. Reconnected wire.	Green Valley
Loran C	09-Oct-88	Whip antenna broke off at base.	Rigged temporary wire antenna until arrival port.	Green Valley
Satellite Navigator	15-Oct-88	Loss of memory during power loss.	Replaced battery pack.	Green Valley
Fax	21-Oct-88	Copy drifting to the right.	Adjusted crystal frequency standard.	Green Valley
Fax Converter	11-Feb-89	No output.	Replaced faulty tube (V3).	Green Valley

Equipment	Date	Problem	Remedy	Ship Name
Transmitter, HF	13-Mar-89	No power to HF transmitters when standby switch turned on.	Replaced burned resistor (R542) and blown fuse (F504) in relay supply of modulator.	Green Valley
Radar	07-Apr-89	No targets.	Replaced magnetron.	Green Valley
Fax Converter	28-Apr-89	No input indication on meter or lamp.	Replaced V4.	Green Valley
Receiver	15-Feb-88	Receiver off frequency.	Calibrated main tuning dial.	S/S Bayamon
Receiver	03-Mar-88	Receiver inoperative.	Replaced "B" battery and cleaned receiver.	S/S Bayamon
SAT NAV.	12-Mar-88	Inoperative	Repaired PCB	S/S Bayamon
Main radio	17-Mar-88	Main long-wire antenna broken	Installed new antenna	S/S Bayamon
Receiver	07-Apr-88	Audio too low.	Replaced A-F output tube.	S/S Bayamon
Receiver	13-Apr-88	Receiver inoperative.	Replaced ballast tube resistor (R-340).	S/S Bayamon
Main receiver	21-Apr-88	Low audio output, noise in audio	Spray-cleaned wafer on audio gain control	S/S Bayamon
Antenna transfer switch	05-May-88	Loose antenna selector switch rod, broken wires	Removed switch assy. -Tightened rods, renewed broken wires, insulated.	S/S Bayamon
Transmitter	09-Jan-89	Half power output.	Replaced 813 final.	Atlantic Spirit
Handy Talkie	26-Apr-89	Dead handy talkie.	Break in PCB repaired in DC circuit from battery. Bad speaker, re-conditioned paper.	Atlantic Spirit
Reserve Receiver	22-Apr-89	Stopped operating on AC power.	Defective fuse holder. Cleaned & adjusted.	Atlantic Spirit
Radar	25-Apr-89	No tune indication, max gain.	Adjust tuning, brightness, clean mtr hv section. Check greenzone alignments and make necessary adjustments. Operating normally now.	Atlantic Spirit
VHF Radio Telephone	17-Jun-88	Microphone PTT switch would not key transmitter.	Aligned push rod with microswitch.	American Heritage
Power supply	18-Jun-88	No DC for VHF in cargo control room.	Installed Newmar 12vdc powersupply on side of control console and wired same into console terminal strip. Also mounted VHF radio bracket near power supply.	American Heritage
Auto alarm	17-Jul-88	Bridge bell inoperative.	Cleaned solenoid plunger, cleaned and burnished interrupter contacts, adjusted contact tension.	American Heritage
Antenna	29-Aug-88	Reserve antenna parted at trunk insulator.	Replaced antenna and weak link. Inspected all shackles and insulators. Replaced thimbles.	American Heritage
Main transmitter	11-Sep-88	Erratic operation.	Cleaned contacts on frequency switch.	American Heritage

Equipment	Date	Problem	Remedy	Ship Name
CAS	24-Sep-88	Would not energize. 10cm sweep went counterclockwise.	Replaced 15A fuse. Exchanged Sax-3 boards and trouble moved to 3cm sweep. Pulled and reseated board, unit restored to service.	American Heritage
Radar	24-Mar-88	FO.5 250v fuse in PWR Sup blows when range switch is changed.	Replaced fuse	SS Tampa Bay
Radar	28-Mar-88	Main breaker blows in stand by. Found burn marks on cover of the MG PC board.	Insulated cover from components	SS Tampa Bay
HR300 1A	04-Apr-88	Signals sound weak.	Burnished contacts on T/R relay in main MF xmtr.	SS Tampa Bay
Receiver	20-Apr-88	Pre-selector intermittent.	Cleaned and adjusted contacts.	SS Tampa Bay
VHF	06-Jun-88	Cuts out on transmit.	Cleaned and burnished T/R and microphone contacts.	SS Tampa Bay
Telex Terminal	28-Dec-87	Terminal giving high pitched whine, ON/OFF LINE LED flashing, print head banging into margin, loss of all memory.	Replaced capacitor (C-9) on power supply PCB.	SS Santa Juana
Radar	20-Nov-87	Tune potentiometer and meter on indicator inoperative.	Replaced voltage dropping resistor (R-601).	SS Santa Juana
Sat Nav	25-Mar-88	Faulty printer operation and monitor presentation.	Replaced monitor and printer.	Zoella Lykes
Radar	28-Mar-88	No scanner rotation.	Replaced broken belts.	Zoella Lykes
Radar	11-May-88	Erratic sweep.	Repaired loose coupling on scanner synchro. Aligned scanner and indicator synchro.	Zoella Lykes
Radar	11-May-88	Erratic sweep.	Replaced antenna drive belt. Aligned scanner and indicator synchro, lubricated antenna and deflection drives.	Zoella Lykes
Radar	24-May-88	Magnetron double pulsing and shifting frequency when pulse width changed.	Installed new magnetron and tuned receiver & TR cell.	Zoella Lykes
Radar	24-May-88	Sweep problem, intermittent shifting of heading line when ranges changed.	Replaced sweep generator PCB and aligned.	Zoella Lykes
Radar	20-May-88	No scanner rotation or CRT presentation.	Replaced blown fuse in power converter unit.	Zoella Lykes
VHF	30-May-88	Poor signal checks.	Replaced 12V battery.	Zoella Lykes
Sat Nav	02-Jun-88	Video monitor with erratic display.	Exchanged units.	Zoella Lykes
Radar	08-Jun-88	Loss of video after 45 minutes of operation.	Replaced video output PCB.	Zoella Lykes
Radar	17-Jun-88	Bearing cursor inoperative.	Adjusted to re-engage gearing between operating knob and cursor.	Zoella Lykes

Equipment	Date	Problem	Remedy	Ship Name
Radar	20-Jun-88	Erratic sweep.	Repaired loose coupling to scanner synchro and bad connection to indicator synchro. Adjusted indicator switch for deflection coil zero heading, synchronized indicator and scanner.	Zoella Lykes
Radar	08-Aug-88	Center spot but no trace on any range.	Replaced sweep generator pcb.	Zoella Lykes
Radar	25-Sep-88	Head Up/Gyros, Stab/Head, Set/Reset switch S-9 defective.	Replaced switch after priority requisition and shipment completed.	Tonsine
Main HF ant.	29-Oct-88	Signal badly distorted at times.	Cleaned and tightened connections on down lead to beehive insulator.	Tonsine
Radar	02-Dec-88	Master failed to follow gyro. Slave followed.	Dry bearings A9A2 B2	Tonsine
SatCom	21-Dec-88	Can't make phone calls out.	Spray cleaned T-tone pad and recripped lugs at end of cable.	Tonsine
Radar	30-Dec-88	Missing distant targets	Found modulator glowing, replaced same.	Tonsine
Radar	02-Mar-89	Randomly drops from operate to standby.	Cleaned op/stby switch and checked connections, cleaned interlock, tightened terminal connection in str & ind for xmt enable circuit. Defective modulator replaced.	Tonsine
Telex	03-Mar-89	Ribbon won't move, blew fuse.	New fuse ok, smoked motor. Placed order for new one. Rest of circuit checks ok.	Tonsine
Telex	14-Mar-89	Print head on replacement typing assembly giving poor copy.	Cleaned needles in print head.	Tonsine
Radar	22-Mar-89	3 cm radar targets disappear occasionally but return after a few minutes.	Defective modulator heating up thermal cutoff sw in mtd changed mod.	Tonsine
Telex Machine	03-Mar-89	Ribbon transport motor burned out.	Order motor.	Tonsine
Telex	27-Mar-89	3 amp fuse for keyboard blown.	Checked for shorts, found none. Lubricated moving parts per book.	Tonsine
Receiver	28-Mar-89	Audio switch erratic.	Cleaned and exercised switch.	Tonsine
Antenna System	29-Apr-89	Reduced transmitter antenna current.	Replaced defective insulators.	Tonsine
Radar	25-Aug-89	Losing distant targets.	Replaced magnetron and tuned receiver.	Tonsine
Radar	24-Oct-89	No high voltage.	Replaced transistors Q1 & Q2. Replaced A2A3 base driver board.	Tonsine
Antenna Transfer	17-May-89	Old switch worn out.	Replaced with spare unit from ships stock.	Atigun Pass
Elevator	21-May-89	Elevator stuck on top floor, will not accept command to move.	Problem on start sequence board. Replaced 7402 and 7406 chips with spares from engine room.	Atigun Pass

Equipment	Date	Problem	Remedy	Ship Name
Radar	06-Jun-89	Targets jumping position on screen, range rings distorted.	Removed resolver, and cleaned all contacts. Replaced resolver, operation normal.	Atigun Pass
Antenna Coupler	06-Jun-89	Coil servo motor will not move during automatic or manual tuning.	Found 2 bad transistors (Q9,Q2) on L-servo amp board, shorted power transistor (Q8) servo driver. Replaced components, adjusted servo amp board for zero balance.	Atigun Pass
Telephone	08-Jun-89	Handset snp spring worn out, will not stay on hook, ties up ships telephone system.	Replaced handset with hadnset from ships spare.	Atigun Pass
Depth Sounder	14-Jun-89	At times will only read zero in waters shallow enough to expect a readout.	Found clock oscillator intermittent on timing board. Replaced relay (K201). Unit now reads OK.	Atigun Pass
Radar	14-Jul-89	During routine cleaning of air filters, found one cooling fan had frozen bearings.	Replaced fan with one from ships spares.	Atigun Pass
Radar	26-Feb-88	No targets. No mag I. Mod. not conducting.	Replaced mag and retuned mag I/Readjusted loose tuning for max targets.	Keystone Canyon
Radar	27-Aug-88	No targets/sea return. Crystal I low. Mag I reads low.	Replaced crystals and mag. Replaced Osc. Assy MA87659.	Keystone Canyon
Radar	07-Oct-87	Targets weaken and slowly dissappear to zero targets.	Replaced counter PCB 589424-1.	Keystone Canyon
Radar	27-Oct-88	Weak targets. Mag I reads low.	Replaced mag and retuned frequency.	Keystone Canyon
Radar	06-Dec-87	No targets. MTR drops out - 550V mod bias found decaying.	Replaced mod. tube.	Keystone Canyon
Radar	15-Jun-88	Won't go to "on" position. Fast flash. No "12V DLY"	Replaced defective modulator.	Keystone Canyon
Radar	15-Jun-88	No targets-won't go on. No mag I. No HV. No 12v DCY.	Replaced mag. and retuned.	Keystone Canyon
Radar	17-Jun-88	No targets. No Mag I. Mod not cond.	Replaced shorted pulse drive PCB.	Keystone Canyon
Radar	13-Sep-88	No targets, MOD not conducting.	Replaced modulator tube.	Keystone Canyon
Receiver - Watch	26-Jul-88	Won't turn on.	Repaired open connection from on/off switch.	Keystone Canyon
Receiver - Main	28-Sep-88	Very noisy reception	Replaced audio amp. PCB	Keystone Canyon
Facsimile machine	03-Oct-88	Weak light copy	Replaced and cleaned stylus blade	Keystone Canyon
Receiver - Watch	01-Apr-89	Unit inoperative.	Defective switch (on-off). No spare, jumpered switch. Ordered replacement.	Keystone Canyon
Radar	24-May-89	EBL/Bug not coincident with VRM. 24 mile range ring not showing. Range rings and VRM not symmetrical.	Adjusted PCB's : A2A8, A2A9 and A2A10.	Keystone Canyon
Loran C	01-Apr-88	Broken jack in antenna coupler, coupler case broken.	Replaced antenna coupler.	Overseas Chicago

Equipment	Date	Problem	Remedy	Ship Name
Auto alarm	08-Apr-88	Constant alarm when equipment turned on no +12V	Replaced 23 on p/s regulator board.	Overseas Chicago
ES2-4000 Satellite Nav	10-Mar-88	Unit infrequently fails to acquire sat. fix and needs to be shut off and back on and then will work normally.	Replaced unit.	Coronado
Radar	16-Jul-88	Radar video approximately 5 to 6 degrees minus.	Aligned resolver and heading flasher reed switch.	Coronado
2182 Antenna	09-Apr-88	2182 vertical antenna ripped from its mounts due to heavy winds. One of two brackets holding antenna broke.	With the help of the bosun fabricated a new insulator and reinstalled antenna.	Puerto Rico
Radar	22-Apr-88	Radar spoking badly.	Replaced magnetron.	Puerto Rico
Radar	20-Mar-88	Spoking intermittently.	Replaced L.O. and TR limiter. Adjusted tuning and power supply voltages.	Normacsun
HF transmitter	13-Oct-88	No antenna current.	Replace second multiplier tube.	MV Green Bay
Receiver - HF	12-Apr-89	Preselector setting stuck on 00000.0	Removed dead 6v nicad battery & receiver became operational.	ONI Hudson
Electro-Nav H/F xmtr	02-Apr-88	Inoperative.	Found teflon tuning wafers had shorted. Reprogrammed tuning drums.	MV Archon
Transmitter	20-Aug-89	No output.	Replaced faulty relay.	Overseas New York
SSB	21-Aug-89	Not working.	Checked all connections, switches, interlocks, relays, while doing this the problem went away, possible dirty contacts or connections.	Overseas New York
Gyro Repeater	15-Sep-89	Mate complained no lights.	Rheostat has been bypassed, rewired properly and checked all wiring.	Overseas New York
Speed Log	29-Sep-89	Speed readout meter faulty.	Replaced with new meter.	Overseas New York
SSB	16-Oct-89	No high voltage.	Checked all interlock switches in system for good connections, tightened mountings.	Overseas New York
Loud Speaker	04-Oct-89	No output to bridge wing speakers.	Checked amplifier, found transistors had arced to ground insulation carbonized, cleaned spray with insulation. Repaired broken wire in speaker	Overseas New York
Bench Power Supply	04-Oct-89	No output.	Resistor lead has pulled loose from pad. Resoldered.	Overseas New York
Loud Speaker	05-Nov-89	Speaker on port wing of bridge not working.	Replaced speaker.	Overseas New York
Transmitter	20-Oct-89	While trying run TF/Call kept "throwing" plate overload circuit breaker.	Bottom plate of linear amp loose. Tightened fittings, set ok.	Overseas New York
Transceiver - lifeboat	20-Oct-89	Pre-departure test found not keying manual/auto.	Found tube V6 shorted. Replaced fuse, now operating normally.	Overseas New York
Radar	28-Nov-89	Antenna unit making grinding noise in gear unit.	Replaced scanner motor unit.	Overseas New York

Equipment	Date	Problem	Remedy	Ship Name
Transmitter	29-Mar-88	High voltage would not come on after normal 3 minute wait. Defective interlock on linear amplifier.	Replaced with spares.	Puerto Rico
Radar	10-Jul-88	Slotchy targets, cloudy appearance, poor definition.	Adjusted focus for sharpness.	Cagueas
Antenna	13-Jul-88	Poor reception of sideband signals.	Cleaned and re-terminated sideband receiving antenna.	Cagueas
Radar	04-Feb-88	No video	Replaced low voltage power supply.	President Van Buren
Radar	11-Apr-88	Strong odor emanating from cas unit. Loss of cas function. Distorted video on 3cm.	Bypassed cas to restore video on 3cm radar.	President Van Buren
Loran	26-Jun-89	Weak reception.	Found blown fuse in antenna circuit, replaced fuse.	President Grant
Radar	10-Feb-88	Hour meter failed	Replaced meter and resistor	President Lincoln
Radar	25-Feb-88	Drift control could not be set to zero on CRT display	Adjusted internal pot to calibrate drift control	President Lincoln
Transmitter	23-May-88	No indication on artificial antenna meter. Cables looping through artificial antenna switch had broken due to vibration.	Re-soldered both cables (in and out) strain relief added to take stress of connections.	Adonis
Receiver - Watch	28-May-88	Poor reception on 2182 watch receiver. Antenna had been disconnected at antenna junction.	Installed new termination screws, bolts, nuts, lock washes and cleaned and tightened all hardware on antenna.	Adonis
Comsat Telex Keyboard/	23-Dec-87	Keyswitch "W" open removed and opened keyswitch found bad solder joint inside switch.	Resoldered joint and cleaned contact surfaces.	ONI Charger
Antenna Transfer Switch	12-Jan-88	Smoke and fire	Replaced flex wire to moveable contact	ONI Charger
Satcom	03-Apr-88	Unit locked up-found cracked interconnect cable plug in keyboard unit.	Repaired	MV Archon
Transmitter	03-Apr-88	Inoperative- unit blew fuse, three output transistors shorted.	Replaced	MV Archon
VHF	05-Jul-88	No transmission when mike button pressed.	Found connecting wire inside cable from microphone to set broken. Repaired wire.	Kittanning
Radar	21-Jul-88	No voltage at test point 2/4 MTR.	Replaced two shorted transistors (Q1 & Q2) in MVPS. Replaced Pulse Logic Board and MTR High Voltage Assembly.	Kittanning
Satellite	11-Sep-86	No receive current. No azimuth rotation. Chain off sprocket.	Replaced chain and tightened/adjusted bolts with elongated holes.	Keystone
SATNAV	22-Mar-88	Intermittent operation of Satnav	Replaced with Raytheon 200 Satnav. Rewired connectors, installed power supply and assembled on stock shelf.	Normacsun

Equipment	Date	Problem	Remedy	Ship Name
Radar	29-Feb-88	Weak targets on all ranges, low magnetron current & local oscillator supply voltage.	Replaced magnetron and local oscillator.	Elizabeth Lykes
Radar	03-Mar-88	Reported dark screen, no sweep or targets.	Replaced shorted transistor (Q6) in chopper circuit. High voltage restored.	Elizabeth Lykes
Radar	04-Feb-88	Weak targets all ranges.	Checked and replaced as necessary IF strip (V602 thru V610), indicator video amplifier (V325).	Elizabeth Lykes
Fathometer	17-Feb-88	No echoes on recorder.	Replaced tubes (V101 & V102).	Elizabeth Lykes
Radar	20-Mar-88	Preventative maintenance.	Cleaned and tightened antenna, added two pints of oil, lubricate greased gears.	Elizabeth Lykes
Radar	07-May-88	Weak targets all ranges.	Tuned local oscillator for optimum range.	Elizabeth Lykes
Course Recorder	21-Feb-88	Inoperative.	Tightened clutch assembly, cleaned clock assembly. Oiled gear and drive mechanism.	Elizabeth Lykes
Radar	03-Jan-88	Blower motor noisy and working erratic.	Replaced blower motor.	Kittanning
Receiver	20-Jul-88	Receiver inoperative.	Replaced Counter Board with new.	Kittanning
Radar	23-Sep-89	MTR operation not functioning. Acknowledge pulse missing.	Installed modulator tube and magnetron, aligned.	President Grant
Radar	30-Sep-89	Indicator plotting vector and acquired target point drifting outside target.	Complete alignment.	President Grant
H.F. antenna tuner	12-Dec-88	H.F. transmitter antenna would not tune.	Opened ant. tuner and replaced 250 V - 6A fuse.	MV Green Bay
Radar	24-Dec-88	10cm radar antenna would not rotate.	Pinpointed bad transistor and by-passed for temporary repair-transistor to be replaced in port.	MV Green Bay
Radio - VHF	28-Dec-89	During FCC inspection the VHF showed high VSWR.	Radio showed no VSWR on dummy load. Checked transmission line and found water in the "N" type connector, removed water and sealed connection.	MV Green Bay
Radar	24-Feb-88	No CRT display.	Switch (S-106) insulation breakdown due to age. Replaced switch.	SS Ruth Lykes
Radar	01-Mar-88	Radar has history of erratic tuning and target display.	Troubleshooting revealed tune supply and control wires at MTR were stuck into terminal holes but not tightened down. Reworked wire ends and secured.	SS Ruth Lykes
Sat Nav	05-Feb-88	No fixes for over 24 hours.	Dismantled unit and cleaned each PCB edge connector. Unit now obtaining fixes.	SS Ruth Lykes